JOURNAL OF PALEONTOLOGY

INDEX TO VOLUME 22

AUTHOR INDEX

		No.	Page
1.	BARTRUM, J. A., Two undetermined New Zealand Tertiary fossils	4	488
2.	BELL, W. CHARLES, Acetic acid etching applied to Cambrian brachiopods	1	101
3.	BOUSKA, JOSEF, Holynocrinus, new crinoid genus from the Middle Devonian of Bohemia	4	520
4.	BRANSON, E. B. and MEHL, M. G., Conodont homonyms and names to replace them	4	527
5.	BROWN, IDA A., Ordovician brachiopods from Junee District, Tasmania	1	35
6.	BURMA, BENJAMIN H., Studies in quantitative paleontology: I. Some aspects of the theory and practice of quantitative invertebrate paleontology	6	725
7.	BURSCH, J. G., Über morphogenetische untersuchungen an Grossforaminiferen, by Otto Renz and H. Küpper (Review of)	4	533
8.	CASTER, KENNETH E., Anelideos poliquetos dos folhelos devonianos do Paraná, by Frederico Waldemar Lange (Review of)	5	647
9.	CAUDRI, C. M. BRAMINE, Note on the stratigraphic distribution of *Lepidorbitoides* (See also Errata, p. 806)	4	473
10.	CLARK, T. H., *Theodenisia*, new name replacing *Denisia* Clark	5	643
	COLBERT EDWIN H., see NEWELL, NORMAN D. (50)		
11.	COLOM, G., Fossil tintinnids: loricated Infusoria of the order of Oligotricha	2	233
12.	COOKE, C. WYTHE, *Arbia* and *Dixieus*, two new genera of echinoids	5	606
13.	COOKE, C. WYTHE, Eocene echinoids from Panama	1	91
14.	TEN DAM, A., *Cribroparella*, a new genus of Foraminifera from the Upper Miocene of Algeria	4	486
15.	TEN DAM, A., Foraminifera from the Middle Neocomian of the Netherlands	2	175
16.	DAVID, LORE R., Halosauridae from the California Tertiary	2	94
17.	DECKER, CHARLES E., A new species of hydrozoan from the Athens shale of Virginia	4	528
18.	DORREEN, J. M., A Foraminifera fauna from the Kaiatan stage (upper Eocene), of New Zealand	3	281
	DOWNS, R. H., see MILLER, A. K. (46)		
19.	DURHAM, J. WYATT, and ROBERTS, WAYNE A., Cretaceous asteroids from California	4	432
20.	EGUCHI, MOTOKI, A new *Spongiomorpha* from the *Orbitolina* sandstone of Iwate prefecture in Japan	3	365
21.	EGUCHI, MOTOKI, Fossil Helioporidae from Japan and the South Sea Islands	3	362
	FERRIS, BERNARD J., see JOHNSON, J. HARLAN (38)		
22.	FREDERICKSON, E. A., Upper Cambrian trilobites from Oklahoma	6	798
23.	FRITZ, MADELEINE A., Cambrian Bryozoa more precisely dated	3	373
24.	FRIZZELL, DON L., Lectotype of *Spirolectammina grzybowskii*	1	106
25.	FRIZZELL, DON L., Orthography and type designations of *Dictyoconus* Blanckenhorn (Foraminifera)	3	370
26.	GRANT, U. S., and STEVENSON, ROBERT E., A new *Pecten* from the Upper Miocene of California	6	804
27.	GRICE, CHARLES R., *Manorella*, a new genus of Foraminifera from the Austin chalk of Texas	2	222
28.	GRIMSDALE, T. F., Occurrence of *Lepidocyclina pustulosa* (H. Douvillé) in Morocco	4	529
29.	GUNTER, GIRDON, Erratum for "Extended remarks on relationships of marine animals to salinity"	3	388
30.	HAAS, OTTO, Implications of *Prionotropis* Meek being a homonym	1	106
31.	HAAS, OTTO, Legal status of opinions rendered by the I.C.Z.N.	5	641
32.	HAAS, OTTO, *Madrasites* a synonym of *Kossmaticeras* s.str.	5	642
33.	HAAS, OTTO, Monophyletic or polyphyletic derivation of ammonites?	1	104
34.	HATAI, KOTORA, New Tertiary Brachiopoda from Japan	4	494
	HEEZEN, BRUCE C., see YOUNGQUIST, WALTER (94)		
	HIBBARD, RAYMOND R., see YOUNGQUIST, WALTER (95)		
35.	HOFKER, J., On *Asterigerina gurichi* (Franke), and remarks on polymorphism and the stratigraphic use of Foraminifera	4	509
36.	HOUGH, JEAN RINGIER, A systematic revision of *Daphoenus* and some allied genera	5	573
	HOWELL, B. F., see JOHNSON, J. HARLAN (39)		
37.	JEFFORDS, RUSSELL M., New Pennsylvanian dibunophyllid corals	5	617

38. JOHNSON, J. HARLAN, and FERRIS, BERNARD J., Eocene Algae from Florida 6 762
39. JOHNSON, J. HARLAN, and HOWELL, B. F., a new Cretaceous alga from Kansas 5 632
40. KJELLESVIG-WAERING, ERIK N., Two new eurypterids from the Silurian of Indiana .. 4 465
41. KNIGHT, J. BROOKES, Report of Policy Board of Joint Committee on Zoological Nomenclature on Paleontology in America for 1947 ..... 5 643
42. KNIGHT, J. BROOKES, and WELLER, J. MARVIN, The application of opinion 138 to some recently published names 1 107
43. LALICKER, CECIL G., A new genus of Foraminifera from the Upper Cretaceous 5 624
44. LEROY, L. W., The foraminifer *Orbulina universa* d'Orbigny, a suggested Middle Tertiary time indicator 4 500
45. LOCHMAN, CHRISTINA, New Cambrian trilobite genera from northwest Sonora, Mexico 4 451
MEHL, M. G., see BRANSON, E. B. (4)
46. MILLER, A. K., and DOWNS, R. H., A cephalopod fauna from the type section of the Pennsylvanian "Winslow formation" of Arkansas 6 672
47. MILLER, A. K., and PARIZEK, ELDON J., A Lower Permian ammonoid fauna from New Mexico 3 350
48. MILLER, A. K., and YOUNGQUIST, WALTER, The cephalopod fauna of the Mississippian Barnett formation of Central Texas 6 649
MILLER, A. K., see STURGEON, MYRON T. (75), YOUNGQUIST, WALTER (96)
49. NEWELL, NORMAN D., Infraspecific categories in invertebrate paleontology 2 225
50. NEWELL, NORMAN D., and COLBERT, EDWIN H., Paleontologist—Biologist or Geologist? 2 264
51. NISIYAMA, SYOZO, *Astrodapsis* in Japan 5 601
52. OKULITCH, VLADIMIR J., Lower Cambrian Pleospongia from the Purcell Range of British Columbia, Canada 3 340
ORIEL, STEVEN S., see SWARTZ, FRANK M. (76)
53. PALMER, KATHERINE VAN WINKLE, DOROTHY K. PALMER, 1897–1947 ..... 4 518
PARIZEK, ELDON J., see MILLER, A. K. (47)
54. PECK, RAYMOND E., A Triassic crinoid from Mexico 1 81
55. PECK, RAYMOND E., and REKER, CARL E., Eocene Charophyta from North America . 1 85
56. POULSEN, CH., *Grinnellaspis*, new name, replacing *Actinopeltis* Poulsen, 1946 ..... 1 107
57. RASETTI, FRANCO, Cephalic sutures in *Loganopeltis* and the origin of "hypoparian" trilobites 1 25
58. RASETTI, FRANCO, Lower Cambrian trilobites from the conglomerates of Quebec (exclusive of the Ptychopariidea) 1 1
59. RASETTI, FRANCO, Middle Cambrian trilobites from the conglomerates of Quebec (exclusive of the Ptychopariidea) 3 315
60. RAU, WELDON W., Foraminifera from the Miocene Astoria formation in southwestern Washington 6 774
61. RAU, WELDON W., Foraminifera from the Porter shale (Lincoln formation), Grays Harbor County, Washington 2 152
REIMANN, IRVING G., see YOUNGQUIST, WALTER (95)
REKER, CARL C., see PECK, RAYMOND E. (55)
62. RICHARDSON, EUGENE S., JR., Paleogeography and nomenclature 3 369
ROBERTS, WAYNE A., see DURHAM, J. WYATT (19)
63. RUSSELL, LORIS S., The dentary of *Troodon*, a genus of theropod dinosaurs 5 625
64. SCHMIDT, RUTH A. M., Magnetic separation of microfossils 4 530
65. SCHMIDT, RUTH A. M., Ostracoda from the Upper Cretaceous and Lower Eocene of Maryland, Delaware, and Virginia 4 389
66. SCHOPF, JAMES M., Pteridosperm male fructifications: American species of *Dolerotheca*, with notes regarding certain allied forms 6 681
67. SINCLAIR, G. WINSTON, Three notes on Ordovician cystids 3 301
68. SOHN, I. G., Two new marine ostracodes from the Tertiary of Washington 4 482
69. STAINFORTH, R. M., Applied micropaleontology in coastal Ecuador 2 113
70. STEPHENSON, L. W., *Cypraea corsicanana*, new name for *C. gracilis* Stephenson, preoccupied 5 642
STEVENSON, ROBERT E., see GRANT, U. S. (26)
71. STOYANOW, ALEXANDER, Molluscan faunule from Devonian Island Mesa beds, Arizona 6 783
72. STRIMPLE, HARRELL L., Notes on *Phanocrinus* from the Fayetteville formation of northeastern Oklahoma 4 490
73. STUMM, ERWIN C., A revision of some Mississippian tetracoral genera 1 68
74. STUMM, ERWIN C., Upper Devonian compound tetracorals from the Martin limestone. 1 40
75. STURGEON, MYRON T., and MILLER, A. K., Some additional cephalopods from the Pennsylvanian of Ohio 1 75
76. SWARTZ, FRANK M., and ORIEL, STEVEN S., Ostracoda from the Middle Devonian Windom beds in western New York 5 541
77. SYLVESTER-BRADLEY, P. C., The ostracode genus *Cythereis* 6 792

78. TEICHERT, CURT, Middle Devonian goniatites from the Buchan District, Victoria.... 1 60
79. TEICHERT, CURT, A simple device for coating fossils with ammonium chloride..... 1 102
80. THALMANN, HANS E., Bibliography and Index to new genera, species, and varieties of Foraminifera for the year 1946..... 2 193
81. TURNBULL, WILLIAM D., Cocoa sand type locality..... 3 372
82. VOORTHUYSEN, J. H. VAN, Upper Cretaceous Foraminifera of minute size in the marine Pleistocene (Icenian) sands of the Netherlands..... 4 525
83. WARREN, P. S., Chimaerid fossil egg capsules from Alberta..... 5 630
84. WARTHIN, A. SCOTT, Ostracode genotypes designated by S. A. Miller..... 5 645
85. WELLER, J. MARVIN, Paleontologist—Biologist and Geologist..... 2 268
86. WELLER, J. MARVIN, Principles of micropaleontology, by Martin F. Glaessner (Review of)..... 5 608
2 270
WELLER, J. MARVIN, see KNIGHT, J. BROOKES (42)
87. WELLS, JOHN W., Lower Cretaceous corals from Trinidad, B.W.I..... 5 608
88. WHITTINGTON, H. B., A new Lower Ordovician trilobite..... 5 567
89. WILSON, JAMES L., Two Upper Cambrian *Elvinia* zone trilobite genera..... 1 30
90. WILSON, JOHN ANDREW, Cope's types of fossil fishes in the collection of the Bureau of Economic Geology, the University of Texas..... 3 368
91. WILSON, JOHN ANDREW, A small amphibian from the Triassic of Howard County, Texas..... 3 359
92. WOOD, ALAN, Sectioning small Foraminifera..... 4 530
93. YEN, TENG-CHIEN, Eocene fresh-water Mollusca from Wyoming..... 5 634
94. YOUNGQUIST, WALTER, and HEEZEN, BRUCE C., Some Pennsylvanian conodonts from Iowa..... 6 767
95. YOUNGQUIST, WALTER, HIBBARD, RAYMOND R., and REIMANN, IRVING G., Additions to the Devonian conodont faunas of western New York..... 1 48
96. YOUNGQUIST, WALTER, and MILLER, A. K., Additional conodonts from the Sweetland Creek shale of Iowa..... 4 440
YOUNGQUIST, WALTER, see MILLER, A. K. (48)

SUBJECT INDEX

Acetic acid etching applied to Cambrian brachiopods (2).
Actinopeltis Poulsen, replaced by *Grinnellaspis* (56).
Africa: Occurrence of *Lepidocyclina pustulosa* in Morocco (28); Upper Miocene Foraminifera (14).
Alabama: Oligocene echinoids (12).
Alberta: Cretaceous chimaerid egg capsules (83); Upper Cretaceous dinosaur *Troodon* (63).
Algeria: Foraminifera, Upper Miocene (14).
Ammonites, Monophyletic or polyphyletic origin (33).
Ammonium chloride, simple device for coating fossils (79).
Ammonoids, Permian, Lower, New Mexico (47).
Amphibian, small, from Texas Triassic (91).
Arbia: Oligocene echinoids (12).
Arkansas: Cephalopod fauna from Pennsylvanian "Winslow formation" type section (46); Foraminifera, Upper Cretaceous (43).
Asterigerina gurichi (Franke) (35).
Asteroids, Cretaceous, California (19).
Astoria formation Foraminifera, southwestern Washington (60).
Astrodapsis in Japan (51).
Athens shale, Hydrozoa, Virginia (17).
Arizona: Devonian Mollusca (71); Martin limestone compound tetracorals (74).
Austin chalk, *Manorella* (Foraminifera), Texas (27).
Australia: Middle Devonian goniatites, Buchan District, Victoria (78).
Balearic Islands: Fossil tintinnids (11).
Barnett formation, Cephalopoda, central Texas (48).
Bibliography and index, Foraminifera (80).
Biglobigerinella, Arkansas Upper Cretaceous Foraminifera (43).
Biologist and geologist (85).
Biologist or geologist (50).
Bohemia: Middle Devonian *Holynocrinus* (3).
Brachiopoda: Cambrian etched with acetic acid (2); Ordovician, Lower, Tasmania (5); Tertiary, Japan (34).
British Columbia: Lower Cambrian Pleospongia (52).
Bryozoa: Cambrian, more precisely dated (23).
Calcareous algae: Kansas Cretaceous (39).
California: Cretaceous asteroids (19); Miocene, Upper, *Pecten* (26); Tertiary *Halosauridae* (16).
Calpionellae, Fossil infusoria (11).
Cambrian: Brachiopods etched with acetic acid (2); Bryozoa more precisely dated (23); Cambrian

Lower: British Columbia Plespongia (52); Trilobita, Quebec (58); Cambrian, Middle: Trilobita, Quebec; Cambrian, Upper: *Elvinia* zone trilobita (89); *Loganopeltoides* (57); Trilobita, Oklahoma (22).
Canada: Cambrian Bryozoa (23); Lower Cambrian Pleospongia (52).
Caribbean: *Lepidorbitoides*, Distribution of (9).
Cephalopoda: Ammonoids, New Mexico Lower Permian (47); Australia Middle Devonian (78); Implications of *Prionotropis* being a synonym (30); *Madrasites* a synonym of *Kossmaticeras* s.str. (32); Mississippian Barnett formation of central Texas (48); Pennsylvanian of Ohio (75); Pennsylvanian "Winslow formation" of Arkansas (46).
Charophyta: Eocene, North America (55).
Chimaerid egg capsules: Cretaceous of Alberta (83).
Cocoa sand type locality (81).
Colombia: Guaduas formation (9).
Conodonts: Additional, from Sweetland Creek shale (Upper Devonian) Iowa (96); Homonyms (4); Iowa Pennsylvanian (94); Western New York Devonian (95).
Cope's types of fossil fishes (90).
Corals: Dibunophyllid, Pennsylvanian of Oklahoma and Kansas (37); Helioporidae, Lower Cretaceous of Japan and South Sea Islands (21); Lower Cretaceous, Japan (20); Lower Cretaceous, Trinidad, B.W.I. (87); Mississippian, revision of some tetracoral genera (73).
Cretaceous: Asteroids, California (19); Calcareous algae, Kansas (39); Chimaerid egg capsules, Alberta (83); Foraminifera (24); Foraminifera, Austin chalk (27); *Lepidorbitoides*, distribution of (9); Lower Cretaceous corals, Japan (20); Trinidad (87); Lower Cretaceous Helioporidae (21); Neocomian Foraminifera, Netherlands (15); Ostracoda (77); Tintinnids (11); Upper Cretaceous: *Biglobigerinella* (43); Troodon (63); Foraminifera in Pleistocene sands (82); Ostracoda (55).
Cribroparella, Upper Miocene Foraminifera, Algeria (14).
Crinoidea: *Holynocrinus*, Middle Devonian, Bohemia (3); *Phanocrinus*, Fayetteville formation, Oklahoma (72); Triassic, Mexico (54).
Cypraea corsicanana Stephenson, new name for *C. gracilis* (70).
Cystoids: Ordovician (67).
Cythereis, the ostracode genus (77).
Daphoenus and some allied genera, Systematic revision of (36).
Delaware: Ostracoda from Upper Cretaceous and Lower Eocene (65).
Dentary of *Troodon* (63).
Devonian: Conodonts, western New York (95); Mollusca, Arizona (71).
Devonian, Middle: Holynocrinus, Bohemia (3); New York Ostracoda (76); Victoria goniatites (78).
Devonian, Upper; Additional Sweetland Creek shale conodonts (96); Compound tetracorals (74).
Dibunophyllid corals, Pennsylvanian, Kansas and Oklahoma (37).
Dictyoconus Blanckenhorn (25).
Dinosaurs: Theropod, dentary of *Troodon* (63).
Distribution, stratigraphic, of *Lepidorbitoides* (9).
Dixieus, Eocene echinoids (12).
Dolerotheca, American species of (66).
Echinodermata: Asteroids, California Cretaceous (19).
Echinoidea: *Astrodapsis* in Japan (51); Eocene, Panama (13); Tertiary, Alabama, Florida (12).
Ecology: Relationships of marine animals to salinity, erratum for extended remarks on, (29).
Ecuador: Applied micropaleontology in coastal, (69).
Elvinia zone trilobites, Mid-continent Upper Cambrian (89).
Eocene: Algae, Florida (38); Cocoa sand type locality (81); Echinoids (12); Fresh-water Mollusca (93); *Lepidocyclina pustulosa* (28); New Zealand Foraminifera (18); North American Charophyta (55); Ostracoda, Lower Eocene (65).
Etching with acetic acid (2).
Europe: Middle Devonian *Holynocrinus* from Bohemia (3).
Eurypterids: Silurian, Indiana (40).
Evolution of ammonites (33).
Extended remarks on relationships of marine animals to salinity, erratum for (29).
Fayetteville formation: *Phanocrinus*, Oklahoma (72).
Fishes: Chimaerid egg capsules (83); Copes types of (90).
Florida: Eocene algae (38); Eocene echinoids (12).
Foraminifera: *Asterigerina gurichi*, polymorphism and stratigraphic use of (35); Bibliography and index, 1946 (80); Cretaceous, Upper, of Arkansas (43); Cretaceous, Upper, in Pleistocene sands (82); *Dictyoconus* Blanckenhorn, orthography and type designations (25); Eocene, Upper, New Zealand (18); Lepidocyclina pustulosa, Morocco (28); *Manorella* from Austin chalk, Texas (27); Miocene, Washington (60); Miocene, Upper, Algeria (14); Neocomian, Upper, Netherlands (15); *Orbulina universa* as Middle tertiary time indicator (44); Sectioning of small (92); *Spiroplectammina grzybowskii* (24); Stratigraphic distribution of *Lepidorbitoides* (9); Tertiary, coastal Ecuador (69); Tertiary, Early, of Washington (61).
Fossils: New Zealand Tertiary (1).

Fresh-water Mollusca, Wyoming Eocene (93).
Fructifications of *Dolerotheca* (66).
Genotypes: Of ostracodes, designated by S. A. Miller (84).
Goniatites: Middle Devonian of Australia (78).
Grays Harbor County, Washington, Foraminifera (61).
Halosauridae: California Tertiary (16).
Helioporidae: Fossil, Japan and South Sea Islands (21).
Holynocrinus: Middle Devonian, Bohemia (3).
Homonym, implication of, in *Prionotropis* (30).
Homonyms: Conodont (4).
Howard County, Texas: Triassic amphibian (91).
Hydrozoa: Lower Ordovician, Virginia (17).
Icenian (Pleistocene) with Upper Cretaceous Foraminifera (82).
Illinois: Pennsylvanian plants, Dolerotheca (66).
Index to new genera, species and varieties of Foraminifera for the year 1946 (80).
Indiana: Silurian eurypterids (40).
Infraspecific categories in invertebrate paleontology (49).
Infusoria: Fossil tintinnids (11).
International Commission on Zoological Nomenclature, Legal status of opinions (31).
Invertebrate paleontology, Infraspecific categories in, (49).
Iowa: Additional Sweetland Creek conodonts (96); Pennsylvanian conodonts (94).
Island Mesa beds, Devonian, Mollusca of, (71).
Japan: *Astrodapsis* (51); Fossil Helioporidae (21); Lower Cretaceous corals (20); New Tertiary Brachiopoda (34).
Junee District, Tasmania, Lower Ordovician Brachiopoda (5).
Jurassic: Ostracoda (77); Tintinnids (11).
Kaiatan stage (Upper Eocene), Foraminifera, New Zealand (18).
Kansas: Cretaceous calcareous algae (39); Pennsylvanian corals (37).
Kossmaticeras, s.str. and *Madrasites* (32).
Legal status of opinions rendered by the International Commission on Zoological Nomenclature (31).
Lepidocyclina pustulosa, occurrence in Morocco (28).
Lepidorbitoides, stratigraphic distribution (9).
Lincoln formation: Tertiary Foraminifera (61).
Loganopeltoides, cephalic sutures and origin of hypoparian trilobites (57).
Madrasites synonym of Kossmaticeras s.str. (32).
Magnetic separation of microfossils (64).
Manorella, Foraminifera, Austin chalk, Texas (27).
Martin limestone, Upper Devonian tetracorals (74).
Maryland: Ostracoda, Upper Cretaceous, Lower Eocene (65).
Mexico: New Cambrian trilobite genera (45), Triassic Crinoidea (54).
Microfossils, magnetic separation of (64).
Micropaleontology, applied, in coastal Ecuador (69).
Miocene: *Daphoenus*, revision and related genera (36); Foraminifera (60).
Miocene, Upper: Foraminifera (14); *Pecten* (26).
Mississippian: Barnett formation cephalopods (48); Fayetteville *Phanocrinus* (72); Tetracoral genera (73).
Mollusca: Devonian, Arizona (71); Eocene, Wyoming fresh water (93).
Monophyletic or polyphyletic derivation of ammonites? (33).
Morocco: Occurrence of *Lepidocyclina pustulosa* (28).
Neocomian: Infusoria (tintinnids) (11); Foraminifera, Netherlands (15).
Neogene: *Astrodapsis* in Japan (51).
Netherlands: *Asterigerina gruichi* (35); Middle Neocomian Foraminifera (15); Pleistocene Icenian sands with Upper Cretaceous Foraminifera (82).
Nevada: Lower Ordovician trilobites (88).
New genera of trilobites, Cambrian, Mexico (45).
New Mexico: Lower Permian ammonoids (47).
New names: Conodont (4); *Cypraea corsicanana* for *C. gracilis* Stephenson (70); *Grinnellaspis* for *Actinopeltis* Poulsen (56).
New York: Conodonts (95); Ostracoda (76).
New Zealand: Eocene Foraminifera (18); Tertiary fossils (1).
Nomenclature: and paleogeography (62); Zoological, application of opinion 138 to some recently published names, (42).
North America: Eocene Charophyta (55).
Ohio: Pennsylvanian Cephalopoda (75).
Oklahoma: Cambrian trilobites (22); Pennsylvanian corals (37); *Phanocrinus* (72).
Oligocene: Echinoides (12).
Oligotricha: Fossil Infusoria (11).
Ontario: Ordovician cystids (67).

Opinion 138, application of (42).
Orbitolina sandstone (20).
Orbulina universa (44).
Ordovician: Brachiopoda (5); Cystids (67); Hydrozoan (17); Trilobita (88).
Orthography and type designations of *Dictyoconus* (25).
Ostracoda: Cretaceous and Eocene (65); *Cythereis* (77); Devonian (76); Genotypes (84); Tertiary (68).
Paleogeography and nomenclature (62).
Paleontologist: Biologist and geologist (85); Biologist or geologist? (50).
Paleontology: Infraspecific categories in invertebrate (49); Quantitative, invertebrate (6).
Palmer, Dorothy K. (53).
Panama: Eocene echinoids (13).
Pecten, Upper Miocene, California (26).
Pelecypoda: Upper Miocene *Pecten*, California (26).
Pennsylvanian: Cephalopoda Arkansas (46); Ohio (75); Conodonts, Iowa (94); Corals, Oklahoma and Kansas (37); *Dolerotheca* (66); "Winslow formation," fauna (46).
Permian, Lower: New Mexico ammonoids (47).
Phanocrinus, Mississippian, Oklahoma (72).
Plants: *Dolerotheca* (66); Eocene Charophyta (55).
Pleistocene, marine, with Upper Cretaceous Foraminifera (82).
Pleospongia: Lower Cambrian, British Columbia (52).
Polymorphism, Foraminifera (36).
Porter shale Foraminifera (61).
Prionotropis Meek, Implications of being a homonym (30).
Pteridosperms: *Dolerotheca* (66).
Purcell Range, British Columbia: Lower Cambrian Pleospongia (52).
Quebec: Cystids, Ordovician (67); *Loganopeltoides*, Upper Cambrian (57); Trilobites, Lower Cambrian (58); Trilobites, Middle Cambrian (59).
Quantitative paleontology, Invertebrate (6).
Recent: Ostracoda (77).
Report of Policy Board of Joint Committee on Zoological Nomenclature on Paleontology in America (41).
Reviews: Anelidos polyquetos folhelos devonianos do Paraná, by Frederico Waldemar Lange (8); Principles of micropaleontology, by Martin F. Glaessner (86); Über morphogeneticsche untersuchungen an Grossforaminiferen, by Otto Renz and H. Küpper (7).
Revision of some Mississippian tetracoral genera (73).
Sectioning small Foraminifera (92).
Separation, magnetic, of microfossils (64).
Significance of *Spongiomorpha*, Lower Cretaceous of Japan (20).
Silurian: Eurypterids, Indiana (40).
Society Records and Activities: *Paleontological Society*, Membership list, p. 375, nominations for officers for 1949, p. 387; *Society of Economic Paleontologists and Mineralogists*, Membership list, p. 272, Reports and minutes, 22nd annual meeting, p. 534.
Sonora, Mexico: New Cambrian trilobite genera (45).
South Dakota: Upper Cambrian trilobites (89).
South Sea Islands: Fossil Helioporidae (21).
Spiroplectammina grzybowskii, Lectotype of (24).
Spongiomorpha, Lower Cretaceous Corals, Japan (20).
Statistical method in paleontology (6).
Statistical study of *Asterigerina gurichi* (35).
Stratigraphic use of Foraminifera, Remarks on, (35).
Studies, quantitative paleontology (6).
Sweetland Creek shale, Additional conodonts from, (96).
Tasmania: Lower Ordovician brachiopods (5).
Techniques: Acetic acid etching (2); Ammonium chloride device (79); Magnetic separation of microfossils (64); Sectioning small Foraminifera (92).
Tertiary: *Astrodapsis* in Japan (51); Brachiopoda, Japan (34); Foraminifera, Washington (61); Fossils, New Zealand (1); Halosauridae, California (16); *Lepidorbitoides* (9); Micropaleontology, coastal Ecuador (69); *Orbulina universa* (44); Ostracoda (77); Ostrcaoda, marine (68).
Tetracorals: Compound, Arizona (74); Mississippian, Revision of genera (73).
Texas: Amphibian (91); Cephalopod fauna (48); Foraminifera (*Manorella*) (27); Trilobites, Upper Cambrian (89).
Theodenisia, new name for *Denisia* Clark (10).
Theory and practice of quantitative invertebrate paleontology (6).
Tintinnids: fossil (11).
Tithonian: Infusoria (tintinnids) (11).
Triassic: Amphibian (91); Crinoidea (54).

Trilobites: Cambrian, Mexico (45); Cambrian (Lower) Quebec (58); Cambrian (Middle) Quebec (59); Cambrian (Upper) *Elvinia* zone (89); Cambrian (Upper) Oklahoma (22); *Denisia* Clark replaced by *Theodenisia* Clark (10); *Actinopeltis* Poulsen replaced by *Grinnellaspis* Poulsen (56); Ordovician (Lower) new genus (88); Origin of "hypoparian" (57).
Trinidad: *Lepidorbitoides* (9); Lower Cretaceous (87).
Troodon, dentary of (62).
Type locality, of Cocoa sand (81).
Types of fossil fishes, Copes (90).
Venezuela: *Lepidorbitoides* (9).
Vertebrates: Amphibia (91); Chimaerid egg capsules (83); Copes types of fossil fishes (90); *Daphoenus* and allied genera (36); Halosauridae (16); *Troodon*, Dentary of (63).
Victoria: Middle Devonian (78).
Virginia: Hydrozoa (17); Ostracoda, Upper Cretaceous, Lower Eocene (65).
Washington: Foraminifera, Early Tertiary (61); Foraminifera, Miocene (60); Ostracoda, Tertiary (68)
West Indies: Lower Cretaceous corals (87).
Windom (Middle Devonian) Ostracoda (76).
"Winslow formation" (Pennsylvanian) Cephalopoda (46).
Wyoming: Cambrian trilobites (89); Eocene Mollusca (93).
Zoological Nomenclature, Report of Policy Board (41).